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Refine Search

Search Results -

Terms	Documents
L4 and (560/\$ or 528/\$ or 428/\$)	13

US Pre-Grant Publication Full-Text Database US Patents Full-Text Database US OCR Full-Text Database **EPO Abstracts Database**

Database: JPO Abstracts Database

Derwent World Patents Index

IBM Technical Disclosure Bulletins

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Search:

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Search History

DATE: Saturday, August 05, 2006 Printable Copy Create Case

Set Name side by side	Query	Hit Count	Set Name result set
DB=PGP	PB, USPT, USOC, EPAB, JPAB, DWPI, TDBD; PLUR=YE	S; OP=ADJ	result bet
<u>L5</u>	L4 and (560/\$ or 528/\$ or 428/\$)	13	<u>L5</u>
<u>L4</u>	L1 and acryloyl\$7	22	<u>L4</u>
<u>L3</u>	L1 and acryoyl\$7	0	<u>L3</u>
<u>L2</u>	L1 and acryoyloxy	0	<u>L2</u>
<u>L1</u>	mesogen and amino and polymerizable group	76	<u>L1</u>

END OF SEARCH HISTORY

Hit List

First Hit Clear Generate Collection Print Fwd Refs Bkwd Refs

Generate OACS

Search Results - Record(s) 1 through 10 of 13 returned.

☐ 1. Document ID: US 20060083867 A1

L5: Entry 1 of 13 File: PGPB

Apr 20, 2006

PGPUB-DOCUMENT-NUMBER: 20060083867

PGPUB-FILING-TYPE:

DOCUMENT-IDENTIFIER: US 20060083867 A1

TITLE: Retarder and circular polarizer

PUBLICATION-DATE: April 20, 2006

INVENTOR-INFORMATION:

NAME CITY STATE COUNTRY

Ito; Tadashi Minami-ashigara-shi, Kanagawa JP
Takeuchi; Hiroshi Minami-ashigara-shi, Kanagawa JP

US-CL-CURRENT: 428/1.3; 349/117

Full | Title | Citation | Front | Review | Classification | Date | Reference | Sequences | Attachments | Claims | KMC | Draw. De

☐ 2. Document ID: US 20040219305 A1

L5: Entry 2 of 13

File: PGPB Nov 4, 2004

PGPUB-DOCUMENT-NUMBER: 20040219305

PGPUB-FILING-TYPE: new

DOCUMENT-IDENTIFIER: US 20040219305 A1

TITLE: Retardation film and elliptically polarizing film

PUBLICATION-DATE: November 4, 2004

INVENTOR-INFORMATION:

NAME CITY STATE COUNTRY

Nishikawa, Hideyuki Kanagawa JP
Ohkawa, Atsuhiro Kanagawa JP

US-CL-CURRENT: <u>428/1.2</u>

Full Title Citation Front Review Classification Date Reference Sequences Attachments Claims KWC Draw D

☐ 3. Document ID: US 20040199004 A1

L5: Entry 3 of 13

File: PGPB

Oct 7, 2004

PGPUB-DOCUMENT-NUMBER: 20040199004

PGPUB-FILING-TYPE: new

DOCUMENT-IDENTIFIER: US 20040199004 A1

TITLE: Novel mesogens

PUBLICATION-DATE: October 7, 2004

INVENTOR-INFORMATION:

NAME

CITY

STATE COUNTRY

Wellinghoff, Stephen T.

San Antonio

TX

US

Hanson, Douglas P.

San Antonio

TX

US

US-CL-CURRENT: <u>560/19</u>; <u>560/66</u>

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KWIC	Draw, De

☐ 4. Document ID: US 20040144954 A1

L5: Entry 4 of 13

File: PGPB

Jul 29, 2004

PGPUB-DOCUMENT-NUMBER: 20040144954

PGPUB-FILING-TYPE: new

DOCUMENT-IDENTIFIER: US 20040144954 A1

TITLE: Selective ether cleavage synthesis of liquid crystals

PUBLICATION-DATE: July 29, 2004

INVENTOR-INFORMATION:

NAME

CITY

STATE

COUNTRY

Wellinghoff, Stephen T.

San Antonio

TX

US

Hanson, Douglas P.

San Antonio

TX

US

US-CL-CURRENT: <u>252/299.67</u>; <u>252/299.01</u>, <u>560/76</u>, <u>560/8</u>

Full Title Citation Front Review Classification Date Reference Sequences Attachments Claims KMC Draw, De

☐ 5. Document ID: US 20040142116 A1

L5: Entry 5 of 13

File: PGPB

Jul 22, 2004

PGPUB-DOCUMENT-NUMBER: 20040142116

PGPUB-FILING-TYPE: new

DOCUMENT-IDENTIFIER: US 20040142116 A1

TITLE: Compound, retardation plate and method for forming optically anisotropic

layer

PUBLICATION-DATE: July 22, 2004

INVENTOR-INFORMATION:

NAME CITY STATE COUNTRY

Nishikawa, Hideyuki Kanagawa JP
Ohkawa, Atsuhiro Kanagawa JP

US-CL-CURRENT: 428/1.1; 252/299.01, 252/299.61, 252/299.62, 252/299.63, 252/299.67

Full Title Citation Front Review Classification Date Reference Sequences Attachments Claims KMC Draw. De

☐ 6. Document ID: US 20030055280 A1

L5: Entry 6 of 13 File: PGPB Mar 20, 2003

PGPUB-DOCUMENT-NUMBER: 20030055280

PGPUB-FILING-TYPE: new

DOCUMENT-IDENTIFIER: US 20030055280 A1

TITLE: Methods for synthesis of liquid crystals

PUBLICATION-DATE: March 20, 2003

INVENTOR-INFORMATION:

NAME CITY STATE COUNTRY

Wellinghoff, Stephen T. San Antonio TX US Hanson, Douglas P. San Antonio TX US

US-CL-CURRENT: <u>560/76</u>; <u>560/8</u>

Full | Title | Citation | Front | Review | Classification | Date | Reference | Sequences | Attachments | Claims | KWC | Draw, De

☐ 7. Document ID: US 20020177727 A1

L5: Entry 7 of 13 File: PGPB Nov 28, 2002

PGPUB-DOCUMENT-NUMBER: 20020177727

PGPUB-FILING-TYPE: new

DOCUMENT-IDENTIFIER: US 20020177727 A1

TITLE: Novel mesogens

PUBLICATION-DATE: November 28, 2002

INVENTOR-INFORMATION:

NAME CITY STATE COUNTRY

Wellinghoff, Stephen T. San Antonio TX US

Hanson, Douglas P.

San Antonio

CA

US

US-CL-CURRENT: <u>560/86</u>; <u>428/1.1</u>, <u>528/308</u>

Full Title Citation Front Review Classification Date Reference Sequences Attachments Claims

8. Document ID: US 7041234 B2

L5: Entry 8 of 13

File: USPT

May 9, 2006

US-PAT-NO: 7041234

DOCUMENT-IDENTIFIER: US 7041234 B2

TITLE: Methods for synthesis of liquid crystals

PRIOR-PUBLICATION:

DOC-ID

DATE

US 20030055280 A1

March 20, 2003

Full Title Citation Front Review Classification Date Reference Sequences Attachments Claims KMC Draw De

9. Document ID: US 6749771 B1

L5: Entry 9 of 13

File: USPT

Jun 15, 2004

US-PAT-NO: 6749771

DOCUMENT-IDENTIFIER: US 6749771 B1

** See image for Certificate of Correction **

TITLE: Compounds as components in polymerizable liquid crystalline mixtures and

liquid crystal polymer networks comprising them

Full Title Citation Front Review Classification Date Reference Sequences Attachments Claims KiniC Draw, Do

☐ 10. Document ID: US 6136225 A

L5: Entry 10 of 13

File: USPT

Oct 24, 2000

US-PAT-NO: 6136225

DOCUMENT-IDENTIFIER: US 6136225 A

TITLE: Polymerizable liquid-crystalline compounds

Title Citation Front Review Classification Date Reference Sequences Attachments Claims KMC Draw De Generate Collection. Fwd Refs Print Bkwd Refs Generate OACS

Terms	Documents
L4 and (560/\$ or 528/\$ or 428/\$)	13

Change Format Display Format:

Previous Page Next Page Go to Doc#

Hit List

First Hit Generale Collection & Phint Fwd Refs & Blood Refs & Concrete Collection & Concrete Collection & Foundation & Foundation

Search Results - Record(s) 11 through 13 of 13 returned.

☐ 11. Document ID: US 5256784 A

L5: Entry 11 of 13

File: USPT

Oct 26, 1993

US-PAT-NO: 5256784

DOCUMENT-IDENTIFIER: US 5256784 A

** See image for Certificate of Correction **

TITLE: Nonlineaphores and polymers incorporating such nonlineaphores

Full Title Citation Front Review Classification Date Reference Sequences Attachments Claims KWC Draw De

☐ 12. Document ID: US 5087672 A

L5: Entry 12 of 13

File: USPT

Feb 11, 1992

US-PAT-NO: 5087672

DOCUMENT-IDENTIFIER: US 5087672 A

** See image for Certificate of Correction **

TITLE: Fluorine-containing acrylate and methacrylate side-chain liquid crystal

monomers and polymers

Full Title Citation Front Review Classification Date Reference Sequences Attachments Claims KMC Draw De

☐ 13. Document ID: US 5078910 A

L5: Entry 13 of 13

File: USPT

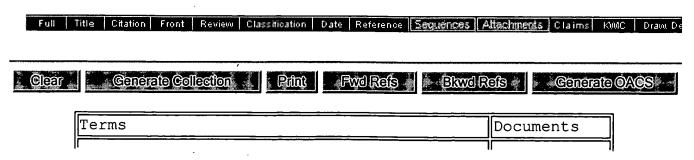
Jan 7, 1992

US-PAT-NO: 5078910

DOCUMENT-IDENTIFIER: US 5078910 A

** See image for Certificate of Correction **

TITLE: Polimerization of liquid crystalline monomers



Uploading C:\Program Files\Stnexp\Queries\121.str

L1 STRUCTURE UPLOADED

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L1 HAS NO ANSWERS

L1

STR

Structure attributes must be viewed using STN Express query preparation.

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REG1stRY INITIATED

Substance data SEARCH and crossover from CAS REGISTRY in progress... Use DISPLAY HITSTR (or FHITSTR) to directly view retrieved structures.

FULL SEARCH INITIATED 12:34:45 FILE 'REGISTRY'

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(FILE 'HOME' ENTERED AT 12:31:04 ON 05 AUG 2006)
                                                                toff to 1 Pan
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L1
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            5618 S L1 FULL.
L2
     FILE 'CAPLUS' ENTERED AT 12:34:46 ON 05 AUG 2006
            2501 S L2 FULL
L3
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L4
                6 S L4 AND POLYMERIZABLE
L5
             210 S L3 AND POLYMERIZABLE
L6
             118 S L3 AND SPACER
L7
L8
             126 S L3 AND MESOGEN
             394 S L8 OR L7 OR L6
Ь9
             190 S L9 AND PY<2001
L10
L11
              25 S L10 AND ACRYLO?
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     ANSWER 1 OF 6 CAPLUS COPYRIGHT 2006 ACS on STN
                            2005:1189318 CAPLUS
ACCESSION NUMBER:
DOCUMENT NUMBER:
                            143:461690
                            Polymerizable dichromophoric dichroic azo
TITLE:
                            dyes
                            Peglow, Thomas; Cherkaoui, Zoubair Mohammed; Moia,
INVENTOR(S):
                            Franco
                            Rolic A.-G., Switz.
PATENT ASSIGNEE(S):
                            Eur. Pat. Appl., 47 pp.
SOURCE:
                            CODEN: EPXXDW
DOCUMENT TYPE:
                            Patent
                            English
LANGUAGE:
FAMILY ACC. NUM. COUNT:
PATENT INFORMATION:
                                                                            DATE
                                                  APPLICATION NO.
                            KIND
                                    DATE
     PATENT NO.
                                                  ______
                            ____
                                    _____
                                                  EP 2004-405280
                                                                            20040504
                                    20051109
      EP 1593713
                             A1
          R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO, MK, CY, AL, TR, BG, CZ, EE, HU, PL, SK,
                                                                            20050426
                                    20051110
                                                WO 2005-CH233
      WO 2005105932
                             A1
              AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH,
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               NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL,
               SM, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA,
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MR, NE, SN, TD, TG
PRIORITY APPLN. INFO.: EP 2004-405280 A 20040504

RW: BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IS, IT, LT, LU, MC, NL, PL, PT, RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML,

GΙ

ZM, ZW

4

* STRUCTURE DIAGRAM TOO LARGE FOR DISPLAY - AVAILABLE VIA OFFLINE PRINT *

AB Title dye having sufficient solubility in combination with high coloring power and high order parameter comprises azo-chromophores to which polymerizable groups are attached. 0.61 G of 4-[[6-(methacryloyloxy)hexyl]oxy]benzoic acid in THF (30 mL) and triethylamine (2.02 g) treated with 0.23 g of methansulfochloride, was reacted with 0.85 g of 4-[(E)-[4-[(E)-[4-[(4-hydroxybenzyl)amino]-1-naphthyl]diazenyl]-1-naphthyl]diazenyl]-1-naphthyl]diazenyl]-1-naphthyl]diazenyl]benzoate in presence of 10 mg of DMAP for 24 h at room temperature to give 0.70 g (54%) of compound (I) as a black powder, λmax=574 nm, ε=83000 (THF).

IT 868754-79-4P 868754-80-7P 868754-81-8P 868754-82-9P 868754-83-0P

RL: IMF (Industrial manufacture); PRP (Properties); RCT (Reactant); TEM (Technical or engineered material use); PREP (Preparation); RACT (Reactant or reagent); USES (Uses)

(polymerizable dichromophoric dichroic azo dyes)

RN 868754-79-4 CAPLUS

CN Benzoic acid, 2,5-bis[[4-[[6-[(1-oxo-2-propenyl)oxy]hexyl]oxy]benzoyl]oxy]-, 10-[(4'-cyano[1,1'-biphenyl]-4-yl)oxy]decyl ester, polymer with 1,6-hexanediyl bis[4-[(1E)-[4-[(1E)-[4-[[4-[[4-[[4-[(2-methyl-1-oxo-2-propenyl)oxy]hexyl]oxy]benzoyl]oxy]phenyl]methyl]amino]-1-naphthalenyl]azo]-1-naphthalenyl]azo]benzoate] (9CI) (CA INDEX NAME)

CM 1

CRN 868754-66-9 CMF C108 H100 N10 O14

Double bond geometry as shown.

PAGE 2-A

PAGE 2-B

CM 2

CRN 853993-28-9 CMF C62 H69 N O13

PAGE 1-A

$$_{\text{H}_2\text{C}} = _{\text{CH}-\text{C}-\text{O}-\text{(CH}_2)} _{\text{C}-\text{O}} _{\text{C}}$$

PAGE 2-A

RN 868754-80-7 CAPLUS

Benzoic acid, 2,5-bis[[4-[[6-[(1-oxo-2-propenyl)oxy]hexyl]oxy]benzoyl]oxy], 10-[(4'-cyano[1,1'-biphenyl]-4-yl)oxy]decyl ester, polymer with
4-[(1E)-[4-[(1E)-[4-[[4-[[4-[[6-[(2-methyl-1-oxo-2-propenyl)oxy]hexyl]oxy]benzoyl]oxy]phenyl]methyl]amino]-1naphthalenyl]azo]-1-naphthalenyl]azo]phenyl 4-[(1E)-[4-[(1E)-[4-[[4-[[4-[[6-[(2-methyl-1-oxo-2-propenyl)oxy]hexyl]oxy]benzoyl]oxy]phenyl]methyl]am
ino]-1-naphthalenyl]azo]-1-naphthalenyl]azo]benzoate (9CI) (CA INDEX NAME)

CM 1

CRN 868754-59-0 CMF C101 H88 N10 O12

PAGE 3-A

Me
$$O$$
 (CH₂) O

CM 2

CRN 853993-28-9 CMF C62 H69 N O13

PAGE 1-A

$$H_2C = CH - C - O - (CH_2)_6 - O$$
 $C = O$
 $C = O$

RN 868754-81-8 CAPLUS

CN Benzoic acid, 2,5-bis[[4-[[6-[(1-oxo-2-propenyl)oxy]hexyl]oxy]benzoyl]oxy]-, 10-[(4'-cyano[1,1'-biphenyl]-4-yl)oxy]decyl ester, polymer with 1,5-naphthalenediyl bis[4-[(1E)-[4-[[4-[[4-[[4-[[6-[(2-methyl-1-oxo-2-propenyl)oxy]hexyl]oxy]benzoyl]oxy]phenyl]methyl]amino]-1-naphthalenyl]azo]benzoate] (9CI) (CA INDEX NAME)

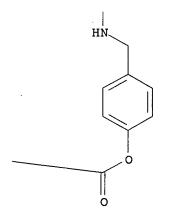
CM 1

CRN 868754-61-4 CMF C92 H82 N6 O14

Double bond geometry as shown.

PAGE 1-B

PAGE 2-A



CM 2

CRN 853993-28-9



PAGE 2-B

$$H_2C = CH - C - O - (CH_2)_6 - O$$
 $O - (CH_2)_{10} - O - C$
 $O - (CH_2)_{10} - O - C$

PAGE 2-A

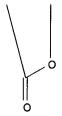
RN 868754-82-9 CAPLUS

CN Benzoic acid, 2,5-bis[[4-[[6-[(1-oxo-2-propenyl)oxy]hexyl]oxy]benzoyl]oxy]-, 10-[(4'-cyano[1,1'-biphenyl]-4-yl)oxy]decyl ester, polymer with 1,6-hexanediyl bis[4-[(1E)-[4-[[4-[[4-[[6-(ethenyloxy)hexyl]oxy]benzoyl]oxy]phenyl]methyl]amino]-1-naphthalenyl]azo]benzoate] (9CI) (CA INDEX NAME)

CM 1

CRN 868754-63-6 CMF C84 H84 N6 O12

Double bond geometry as shown.



PAGE 2-B

CM 2

CRN 853993-28-9 CMF C62 H69 N O13

PAGE 1-A

$$H_2C = CH - C - O - (CH_2)_6 - O$$
 $C = O$
 $C = O$

RN 868754-83-0 CAPLUS

CN Benzoic acid, 2,5-bis[[4-[[6-[(1-oxo-2-propenyl)oxy]hexyl]oxy]benzoyl]oxy]-, 10-[(4'-cyano[1,1'-biphenyl]-4-yl)oxy]decyl ester, polymer with 1,6-hexanediyl bis[4-[(1E)-[4-[[4-[[4-[[6-[(2-methyl-1-oxo-2-propenyl)oxy]hexyl]oxy]benzoyl]oxy]phenyl]methyl]amino]-1-naphthalenyl]azo]benzoate] (9CI) (CA INDEX NAME)

CM 1

CRN 868754-67-0 CMF C88 H88 N6 O14

Double bond geometry as shown.

PAGE 1-A

$$\begin{array}{c} \text{CH}_2 \\ \text{Me} \end{array} \begin{array}{c} \text{O} \\ \text{O} \end{array} (\text{CH}_2) \stackrel{\text{O}}{\text{O}} \end{array}$$

PAGE 2-A



PAGE 2-B

CM 2

CRN 853993-28-9 CMF C62 H69 N O13

$$H_2C = CH - C - O - (CH_2)_{6} - O$$
 $C = O$
 $C = O$
 $C = O$
 $C = O$

PAGE 2-A

REFERENCE COUNT: 4 THERE ARE 4 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L5 ANSWER 2 OF 6 CAPLUS COPYRIGHT 2006 ACS on STN

ACCESSION NUMBER:

2005:1103065 CAPLUS

DOCUMENT NUMBER:

143:387831

TITLE:

Organosilicon compound-containing

polymerizable liquid-crystal composition

INVENTOR(S):

Hirai, Yoshiharu; Kato, Takashi

PATENT ASSIGNEE(S):

Japan

SOURCE:

U.S. Pat. Appl. Publ., 73 pp.

CODEN: USXXCO

DOCUMENT TYPE:

Patent English

1

LANGUAGE: FAMILY ACC. NUM. COUNT:

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
US 2005224754	A 1	20051013	US 2004-2225	20041203
JP 2006126757	A2	20060518	JP 2004-329158	20041112

JP 2003-415332 A 20031212 JP 2004-126705 A 20040422 JP 2004-289837 A 20041001

AB A polymerizable liquid-crystal composition is for obtaining a liquid-crystal film having good adhesiveness to supporting substrates. A polymerizable liquid-crystal layer of controlled alignment can be formed from the polymerizable liquid-crystal composition. The polymerizable liquid-crystal composition contains a polymerizable liquid-crystal compound (mixture) and a organosilicon alignment compound having a

primary amino group.

IT 866687-97-0P 866688-01-9P 866688-08-6P

RL: IMF (Industrial manufacture); TEM (Technical or engineered material use); PREP (Preparation); USES (Uses)

(film; organosilicon alignment compound-containing polymerizable liquid-crystal composition for optical film for liquid crystal displays) 866687-97-0 CAPLUS

RN 866687-97-0 CAPLUS
CN Benzoic acid, 2-fluoro-4-[[6-[(1-oxo-2-propenyl)oxy]hexyl]oxy]-,
2,3-bis(trifluoromethyl)-1,4-phenylene ester, polymer with
6-[(4'-cyano[1,1'-biphenyl]-4-yl)oxy]hexyl 2-propenoate and
9-methyl-9H-fluorene-2,7-diyl bis[4-[[6-[(1-oxo-2-propenyl)oxy]hexyl]oxy]benzoate] (9CI) (CA INDEX NAME)

CM 1

CRN 737001-94-4 CMF C40 H38 F8 O10

PAGE 1-A

$$H_2C = CH - C - O - (CH_2)_6 - O$$
 CF_3
 F
 CF_3
 F

PAGE 1-B

CM 2

CRN 586354-92-9 CMF C46 H48 O10

CM 3

CRN 89823-23-4 CMF C22 H23 N O3

RN 866688-01-9 CAPLUS

CN Benzoic acid, 2-fluoro-4-[[6-[(1-oxo-2-propenyl)oxy]hexyl]oxy]-, 2,3-bis(trifluoromethyl)-1,4-phenylene ester, polymer with [1,1'-binaphthalene]-2,2'-diyl bis[4-[[4-(trans-4-pentylcyclohexyl)benzoyl]oxy]benzoate], 6-[(4'-cyano[1,1'-biphenyl]-4-yl)oxy]hexyl 2-propenoate and 9-methyl-9H-fluorene-2,7-diyl bis[4-[[6-[(1-oxo-2-propenyl)oxy]hexyl]oxy]benzoate] (9CI) (CA INDEX NAME)

CM 1

CRN 850441-06-4 CMF C70 H70 O8

Relative stereochemistry.

CM 2

CRN 737001-94-4 CMF C40 H38 F8 O10

PAGE 1-A

$$H_2C = CH - C - O - (CH_2)_6 - O$$
 CF_3
 CF_3
 CF_3

CM 3

CRN 586354-92-9 CMF C46 H48 O10

PAGE 1-A

$$H_2C = CH - C - O - (CH_2)_6 - O$$
 $C - O - C$

Me

 $C - O - C$

PAGE 1-B

CM 4

CRN 89823-23-4 CMF C22 H23 N O3

RN 866688-08-6 CAPLUS

CN Benzoic acid, 4-[[6-[(1-oxo-2-propenyl)oxy]hexyl]oxy]-,
9-methyl-9H-fluorene-2,7-diyl ester, polymer with 6-[(4'-cyano[1,1'-biphenyl]-4-yl)oxy]hexyl 2-propenoate and 2-methyl-1,4-phenylene
bis[4-[[6-[[1-oxo-2-(trifluoromethyl)-2-propenyl]oxy]hexyl]oxy]benzoate]
(9CI) (CA INDEX NAME)

CM 1

CRN 866688-07-5 CMF C41 H42 F6 O10

CM 2

CRN 586354-92-9 CMF C46 H48 O10

PAGE 1-A

PAGE 1-B

CM 3

CRN 89823-23-4 CMF C22 H23 N O3

L5 ANSWER 3 OF 6 CAPLUS COPYRIGHT 2006 ACS on STN

ACCESSION NUMBER:

2004:20776 CAPLUS

DOCUMENT NUMBER:

TITLE:

140:94878
Polymerizable, luminescent compounds and

mixtures, luminescent polymer materials and their use $% \left(\frac{1}{2}\right) =0$

INVENTOR(S):

Poetsch, Eike; Jacob, Thomas; Serrano, Jose; Pinol, Milagros; Gimenez, Raquel; Stumpe, Joachim; Fischer,

Thomas; Rosenhauer, Regina

PATENT ASSIGNEE(S):

Merck Patent G.m.b.H., Germany

SOURCE:

PCT Int. Appl., 65 pp.

CODEN: PIXXD2

DOCUMENT TYPE:

Patent

LANGUAGE:

English

LANGUAGE:

Engr.

FAMILY ACC. NUM. COUNT:

1

PATENT INFORMATION:

PA	TENT :	NO.			KIND DATE				APPL	ICAT		DATE						
WO	2004	0031	03		A1		20040108						48	20030618				
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		PL,	PT,	RO,	RU,	SC,	SD,	SE,	SG,	SK,	SL,	ТJ,	TM,	TN,	TR,	TT,	TZ,	
		UA,	UG,	US,	UZ,	VC,	VN,	ΥU,	ZA,	ZM,	ZW							
	RW:	GH,	GM,	KE,	LS,	MW,	ΜZ,	SD,	SL,	SZ,	TZ,	UG,	ZM,	ZW,	AM,	AZ,	BY,	
		KG,	ΚZ,	MD,	RU,	ТJ,	TM,	ΑT,	BE,	BG,	CH,	CY,	CZ,	DE,	DK,	EE,	ES,	
		FI,	FR,	GB,	GR,	HU,	ΙE,	IT,	LU,	MC,	NL,	PT,	RO,	SE,	SI,	SK,	TR,	
		BF,	ВJ,	CF,	CG,	CI,	CM,	GA,	GN,	GQ,	GW,	ML,	MR,	NE,	SN,	TD,	TG	
AU	2003	2498	52		A 1		2004	0119	AU 2003-249852						2	0030	618	
EP	1517	974			A1		2005	0330		EP 2	003-	7614	74		20	0030	618	
	R:	ΑT,	BE,	CH,	DE,	DK,	ES,	FR,	GB,	GR,	IT,	LI,	LU,	NL,	SE,	MC,	PT,	
		ΙE,	SI,	LT,	LV,	FI,	RO,	MK,	CY,	AL,	TR,	BG,	CZ,	EE,	HU,	SK		
JР	2005	5316	17		T 2		2005	1020	JP 2004-516618						20	0030	618	
US	2005	2447	18		A1		2005	1103	US 2004-519712						20	0041	230	
PRIORIT	Y APP	LN.	INFO	. :					EP 2002-14067					A 20020701				
								WO 2003-EP6448					W 20030618					

OTHER SOURCE(S):

MARPAT 140:94878

I

GΙ

$$R^{1}-A^{1}$$
 $A^{2}-Z^{1}-A^{3}-R^{2}$

AB The invention relates to polymerizable, luminescent compds. I wherein R1, R2 are H, halogen, NO2, CN, etc., Al is (substituted) 1,4-phenylene, A2 is (substituted) 1,4-phenylene or 2,5-thiophene, A3 is 1,4-phenylene, oxazoline, etc., Z1 is CH:CH, CF:CH, CH:CF, CF:CF, or direct bond, W is CH:, N:, or COCH:, and Q is O, S, or amino,. Furthermore the invention relates to polymerizable mixts. containing compds. according to the invention and preferably at least one polymerizable mesogenic compound Polymer materials obtainable by polymerizing such mixts. are also described. These compds., mixts. and materials show advantageous photoluminescent and/or electroluminescent properties and may be used in light emitting devices and optical- or electrooptical display elements.

IT 642735-04-4P

RL: IMF (Industrial manufacture); POF (Polymer in formulation); PRP (Properties); TEM (Technical or engineered material use); PREP

CM 2

CRN

CMF

CRN 196881-71-7 CMF C28 H34 O5

642735-03-3

C34 H38 O8

Relative stereochemistry.

CM 3

CRN 182311-45-1 CMF C31 H40 O5

Relative stereochemistry.

CM 4

CRN 174063-87-7 CMF C33 H32 O10

PAGE 1-A

PAGE 1-B

REFERENCE COUNT:

THERE ARE 6 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L5 ANSWER 4 OF 6 CAPLUS COPYRIGHT 2006 ACS on STN

6

ACCESSION NUMBER:

2003:879782 CAPLUS

DOCUMENT NUMBER:

139:365376

TITLE:

Polymerizable compounds, polymers made from them and their use in liquid-crystalline resin

compositions

INVENTOR(S):

Yumoto, Masatoshi; Ichihashi, Mitsuyoshi; Hayashi,

Keiichiro

PATENT ASSIGNEE(S): SOURCE:

Fuji Photo Film Co., Ltd., Japan

Jpn. Kokai Tokkyo Koho, 21 pp.

CODEN: JKXXAF

DOCUMENT TYPE:

Patent

LANGUAGE:

Japanese

FAMILY ACC. NUM. COUNT:

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
JP 2003321430	A2	20031111	JP 2002-122836	20020424
PRIORITY APPLN. INFO.:			JP 2002-122836	20020424

OTHER SOURCE(S):

MARPAT 139:365376

AB The compds. are of polyphenyl type substances having hydroxy groups which are modified with acrylate ester groups via spacer groups.

IT 620524-07-4P 620524-12-1P

RL: IMF (Industrial manufacture); PRP (Properties); TEM (Technical or engineered material use); PREP (Preparation); USES (Uses)

(polymerizable compds., polymers made from them and their use

in liquid-crystalline resin compns.)

RN 620524-07-4 CAPLUS

CN Benzoic acid, 3,4-bis[[6-[(1-oxo-2-propenyl)oxy]hexyl]oxy]-,
4-[[[4-[[3,4-bis[[6-[(1-oxo-2-propenyl)oxy]hexyl]oxy]benzoyl]oxy]-2bromophenyl]amino]carbonyl]phenyl ester, polymer with 1,4-phenylene
bis[4-[4-[(1-oxo-2-propenyl)oxy]butoxy]benzoate] (9CI) (CA INDEX NAME)

CM 1

CRN 620523-38-8 CMF C63 H74 Br N O17

PAGE 1-A

$$H_2C = CH - C - O - (CH_2)_6 - O$$
 $H_2C = CH - C - O - (CH_2)_6 - O$
 $H_2C = CH - C - O - (CH_2)_6 - O$
 $H_2C = CH - C - O - (CH_2)_6 - O$
 $H_2C = CH - C - O - (CH_2)_6 - O$

PAGE 1-B

CM 2

CRN 132694-65-6 CMF C34 H34 O10

RN 620524-12-1 CAPLUS

CN Benzoic acid, 3,4-bis[[6-[(1-oxo-2-propenyl)oxy]hexyl]oxy]-,
4-[[[2-chloro-4-[[4-[4-[(1-oxo-2-propenyl)oxy]butoxy]benzoyl]oxy]phenyl]am
ino]carbonyl]phenyl ester, polymer with 1,4-phenylene bis[4-[4-[(1-oxo-2propenyl)oxy]butoxy]benzoate] (9CI) (CA INDEX NAME)

CM 1

CRN 620523-32-2 CMF C52 H56 Cl N 014

PAGE 1-A

$$H_2C = CH - C - O - (CH_2)_6 - O$$
 $H_2C = CH - C - O - (CH_2)_6 - O$
 $H_2C = CH - C - O - (CH_2)_6 - O$
 $C - O - CH_2 - O - CH_$

PAGE 1-B

$$\begin{array}{c|c}
 & \circ & \circ \\
 &$$

CM 2

CRN 132694-65-6 CMF C34 H34 O10

ANSWER 5 OF 6 CAPLUS COPYRIGHT 2006 ACS on STN

ACCESSION NUMBER:

2002:866700 CAPLUS

DOCUMENT NUMBER:

137:354386

TITLE:

Dichroic mixtures, their production and their use

INVENTOR(S):

Buchecker, Richard; Peglow, Thomas; Cherkaoui, Zoubair

M.; Moia, Franco

PATENT ASSIGNEE(S):

Rolic A.-G., Switz.

SOURCE:

Eur. Pat. Appl., 30 pp.

CODEN: EPXXDW

DOCUMENT TYPE:

Patent English

LANGUAGE:

FAMILY ACC. NUM. COUNT:

PATENT INFORMATION:

PA	TENT	NO.			KIND DATE					APPL	ICAT		DATE				
EP	1256	602			A1	_	2002	1113		EP 2	2001-	 8104	45		2	0010	508
	R:		-	-	-		ES, RO,	-		•	IT,	LI,	LU,	NL,	SE,	MC,	PT,
WO	2002			-				-	-	-		CH44			2	0020	128
	2002						2004								_		
	W:	ΑE,	AG,	AL,	AM,	ΑT,	ΑU,	ΑZ,	BA,	BB,	BG,	BR,	BY,	BZ,	CA,	CH,	CN,
											EE,						
											KG,						
		LS,	LT,	LU,	LV,	MA,	MD,	MG,	MK,	MN,	MW,	ΜX,	MZ,	NO,	NZ,	OM,	PH,
		PL,	PT,	RO,	RU,	SD,	SE,	SG,	SI,	SK,	SL,	ТJ,	TM,	TN,	TR,	TT,	ΤZ,
							YU,										
	RW:										TZ,						
		KG,	ΚZ,	MD,	RU,	ТJ,	TM,	AT,	BE,	CH,	CY,	DE,	DK,	ES,	FI,	FR,	GB,
											BF,	ΒJ,	CF,	CG,	CI,	CM,	GΑ,
		•			•	•	NE,	•									
	2002								AU 2002-224717 EP 2002-715349								
EP																	
	R:										IT,	LI,	LU,	NL,	SE,	MC,	PT,
CN	1507	•	•		•		RO,		•			0005	0.0		2	0000	100
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	2004 2004														-	0020: 0040:	
	ZUU4 Y APP				AI		2004	0020			001-						
\VII	1 MEE	T114 •	TNEO	• •							001-						
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21.	55105	cu a		c509.	CILLO,	, 01	VOST.					ompr.	TO TII	y ac	T-Ca.	3 C O	10

polymerizable liquid crystal and at least one polymerizable dichroic dye of the type AB1wB2xB3yB4z [A is a dichroic residue exhibiting at least partial absorption in the visible region (>400 nm); w-z are 0 or 1 whereby w + x + y + z > 0; B1-B4 are H or organic groups, at least one of which is polymerizable]. Such mixts. may be polymerized to give dichroic plastic films with useful optical properties. In an example, dichroic 6-[4-[4-[6-(acryloyloxy)hexyloxy]phenoxycarbonyl]phenoxy]hexyl 1,4-diaminoanthraquinone-2-carboxylate dye was prepared and then combined with 1-4 liquid crystalline monomers having 2 acrylate groups, providing polymerizable dichroic liquid crystalline compns.

IT 474901-13-8P

RL: IMF (Industrial manufacture); TEM (Technical or engineered material use); PREP (Preparation); USES (Uses)

(dye; dichroic mixts. of polymerizable dyes and monomeric liquid crystals)

RN 474901-13-8 CAPLUS

CN 2-Anthracenecarboxylic acid, 1,4-diamino-9,10-dihydro-9,10-dioxo-, 4-[[4-[[6-[(1-oxo-2-propenyl)oxy]hexyl]oxy]benzoyl]oxy]phenyl ester (9CI) (CA INDEX NAME)

PAGE 1-B

= CH₂

IT 474901-29-6P 474901-30-9P 474901-31-0P

474901-33-2P

RL: IMF (Industrial manufacture); TEM (Technical or engineered material use); PREP (Preparation); USES (Uses)

(polymers from dichroic mixts. of polymerizable dyes and monomeric liquid crystals)

RN 474901-29-6 CAPLUS

CN 2-Anthracenecarboxylic acid, 1,4-diamino-9,10-dihydro-9,10-dioxo-,
6-[4-[[4-[[6-[(1-oxo-2-propenyl)oxy]hexyl]oxy]benzoyl]oxy]phenoxy]hexyl
ester, polymer with 2-chloro-1,4-phenylene bis[4-[[6-[(1-oxo-2-propenyl)oxy]hexyl]oxy]benzoate], 2-methyl-1,4-phenylene
bis[4-[[6-[(1-oxo-2-propenyl)oxy]hexyl]oxy]benzoate] and pentyl
2,5-bis[[4-[[6-[(1-oxo-2-propenyl)oxy]hexyl]oxy]benzoyl]oxy]benzoate (9CI)
(CA INDEX NAME)

CM 1

CRN 474901-14-9 CMF C43 H44 N2 O10

CM 2

CRN 185993-72-0 CMF C44 H52 O12

PAGE 1-A

$$\begin{array}{c} O \\ H_2C = CH - C - O - (CH_2)_6 - O \\ \end{array}$$

$$\begin{array}{c} Me^{-(CH_2)_4 - O - C} \\ O \\ C - O \end{array}$$

PAGE 1-B

$$-$$
 (CH₂) 6-0-C-CH== CH₂

CM 3

CRN 150809-90-8 CMF C38 H41 Cl O10

CM 4

CRN 125248-71-7 CMF C39 H44 O10

PAGE 1-A

PAGE 1-B

RN 474901-30-9 CAPLUS

CN Benzoic acid, 2,5-bis[[4-[[6-[(1-oxo-2-propenyl)oxy]hexyl]oxy]benzoyl]oxy]-, pentyl ester, polymer with 2-chloro-1,4-phenylene bis[4-[[6-[(1-oxo-2-propenyl)oxy]hexyl]oxy]benzoate], 6-[[4-[[4-[[4-(dimethylamino)-1-naphthalenyl]azo]phenyl]azo]-1-naphthalenyl]oxy]hexyl 2-propenoate and 2-methyl-1,4-phenylene bis[4-[[6-[(1-oxo-2-propenyl)oxy]hexyl]oxy]benzoate] (9CI) (CA INDEX NAME)

CM 1

CRN 474901-21-8 CMF C37 H37 N5 O3

PAGE 2-A

CM 2

CRN 185993-72-0 CMF C44 H52 O12

PAGE 1-A

$$\begin{array}{c} O \\ H_2C = CH - C - O - (CH_2)_6 - O \\ \hline \end{array}$$

CM 3

CRN 150809-90-8 CMF C38 H41 C1 O10

PAGE 1-A

PAGE 1-B

CM 4

CRN 125248-71-7 CMF C39 H44 O10

PAGE 1-A

$$H_2C = CH - C - O - (CH_2)_6 - O$$
 $C - O$
 Me
 $C - O$
 C

PAGE 1-B

RN 474901-31-0 CAPLUS

CN 2-Anthracenecarboxylic acid, 1,4-diamino-9,10-dihydro-9,10-dioxo-,

6-[4-[[4-[[6-[(1-oxo-2-propenyl)oxy]hexyl]oxy]benzoyl]oxy]phenoxy]hexyl ester, polymer with 2-chloro-1,4-phenylene bis[4-[[6-[(1-oxo-2-propenyl)oxy]hexyl]oxy]benzoate], 6-[[4-[[4-([4-(dimethylamino)-1-naphthalenyl]azo]-1-naphthalenyl]oxy]hexyl 2-propenoate, 2-methyl-1,4-phenylene bis[4-[[6-[(1-oxo-2-propenyl)oxy]hexyl]oxy]benzoate] and pentyl 2,5-bis[[4-[[6-[(1-oxo-2-propenyl)oxy]hexyl]oxy]benzoyl]oxy]benzoate (9CI) (CA INDEX NAME)

CM 1

CRN 474901-21-8 CMF C37 H37 N5 O3

PAGE 1-A

PAGE 2-A

NMe₂

CM 2

CRN 474901-14-9 CMF C43 H44 N2 O10

CM 3

CRN 185993-72-0 CMF C44 H52 O12

PAGE 1-A

PAGE 1-B

$$-$$
 (CH₂)₆-0-C-CH== CH₂

CM 4

CRN 150809-90-8 CMF C38 H41 Cl O10

CM 5

CRN 125248-71-7 CMF C39 H44 O10

PAGE 1-A

PAGE 1-B

RN 474901-33-2 CAPLUS

CN 2-Anthracenecarboxylic acid, 1,4-diamino-9,10-dihydro-9,10-dioxo-, 6-[4-[[4-[[6-[(1-oxo-2-propenyl)oxy]hexyl]oxy]benzoyl]oxy]phenoxy]hexyl ester, polymer with 6-[(1-oxo-2-propenyl)oxy]hexyl 2-[[4-[[6-[4-[[(4'-cyano[1,1'-biphenyl]-4-yl)oxy]carbonyl]phenoxy]hexyl]oxy]benzoyl]oxy]-5-[[4-[[6-[(2-methyl-1-oxo-2-propenyl)oxy]hexyl]oxy]benzoyl]oxy]benzoate (9CI) (CA INDEX NAME)

CM 1

CRN 474901-32-1 CMF C66 H67 N O15

CM 2

CRN 474901-14-9 CMF C43 H44 N2 O10

PAGE 1-A

PAGE 1-B

REFERENCE COUNT:

9 THERE ARE 9 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L5 ANSWER 6 OF 6 CAPLUS COPYRIGHT 2006 ACS on STN

ACCESSION NUMBER:

2002:446122 CAPLUS

DOCUMENT NUMBER:

137:26396

TITLE:

Use of chiral, uncharged metal compounds as doping

agents for liquid crystals

INVENTOR(S):

Prechtl, Frank; Haremza, Sylke; Parker, Robert; Kuerschner, Kathrin; Braun, Manfred; Hahn, Antje;

Fleischer, Ralf

PATENT ASSIGNEE(S): Basf Aktiengesellschaft, Germany

SOURCE: Eur. Pat. Appl., 26 pp.

CODEN: EPXXDW

DOCUMENT TYPE: Patent LANGUAGE: German

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

PATENT NO.						KIND DATE			1	APPI	ICAT	DATE					
												_					
EP	EP 1213293			A1 20020612			I	EP 2	001-	20011201							
EP	1213	293			В1		2004	0623									•
	R:	ΑT,	BE,	CH,	DE,	DK,	ES,	FR,	GB,	GR,	IT,	LI,	LU,	NL,	SE,	MC,	PT,
		ΙE,	SI,	LT,	LV,	FΙ,	RO,	MK,	CY,	AL,	TR						
DE	1006	1625			A1		2002	0613	I	DE 2	000-	10061	L625		2	0001	211
JP	2002	2203	66		A2		2002	0809	j	JP 2	001-	37754	19		2	0011	211
US	2003	06698	84		A1		2003	0410	J	JS 2	001-	11748	3		2	0011	211
US	6695	977			B2		2004	0224									
PRIORITY	APP	LN.	INFO	. :					I	DE 2	000-	10061	L625	7	A 2	0001	211
GI																	

$$[(P^{1}-Y^{1}-A^{1}-Y^{2}-M^{1}-Y^{3}-)_{n}L]_{2}Me$$
 I

$$[(P^{1}-Y^{1}-A^{1}-Y^{2}-M^{1}-Y^{3}-)_{n}L]Me(L'(-Y^{6}-M^{2}-Y^{5}-A^{2}-Y^{4}-P^{2})_{n'})_{m}$$
 II

$$[(P^1-Y^1-A^1-Y^2-M^1-Y^3-)L]_{2Me}$$
 III

$$[(P_1-Y_1-A_1-Y_2-M_1-Y_3-)L]Me(L'(-Y_6-M_2-Y_5-A_2-Y_4-P_2)_n')_m$$
 IV

AΒ The present invention involves the use of chiral, uncharged compds. as doping agents for liquid crystals. The indicated compds. are I or II, for which the variables are defined, independently of each other, as follows: P1 and P2 are H, C1-C12 alkyl groups, a polymerizable or polymerized group, or a group containing such a polymerizable group; Y1 through Y6 are groups -O-, -S-, -CO-, -CO-O-, -O-CO-, -CO-N(R)-, -(R)N-CO-, -O-CO-O-, -O-CO-N(R)-, (R)N-CO-O-, or -(R)N-CO-N(R)-; R is H or a C1-C4 alkyl; Al and A2 are spacers with up to 30 C atoms; M1 and M2 are mesogen groups; n' and n equal 0 or 1; m is 1, 2, or 3, in which the group L'(-Y6-M2-Y5-A2-Y4-P2)n in formula II can represent different moieties; Me is either a transition metal of the 4th, 5th, or 6th period (with the exception of Tc, Ag, Cd, Au, Hg, and the lanthanides) or a Group IVA element (with the exception of C and Pb); L is a tridentate ligand including N-, O-, P-, or S-containing groups, over which ≥1 free electron pair is available for coordination to the metal Me; and L' is an organic group with up to 12 C atoms. The invention also includes compds. III and IV, for which all variables are the same as for the previous compound, as well as liquid crystalline compds. containing ≥1 of the indicated compds. IT187585-64-4

RL: NUU (Other use, unclassified); TEM (Technical or engineered material use); USES (Uses)

(doping of; use of chiral, uncharged metal compds. as doping agents for

liquid crystals)
RN 187585-64-4 CAPLUS
CN Benzoic acid, 4-[[[4-[(1-oxo-2-propenyl)oxy]butoxy]carbonyl]oxy]-,
2-methyl-1,4-phenylene ester (9CI) (CA INDEX NAME)

PAGE 1-A

PAGE 1-B

REFERENCE COUNT: 4 THERE ARE 4 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT